



Portable Dual Drive RAID Enclosure

Model: AE25RDESU

User's Guide

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following suggestions.

Reorient or relocate the receiving antenna

Increase the distance between the equipment and the receiver

Connect the equipment to a different power outlet other than the one where receiver is connected

Consult a certified television or radio technician

Installation Guide

1. To remove the front door of the enclosure, loosen screws on each side.



2. Detach the front door of the enclosure.



3. Slide the 2.5" SATA hard disk into the drive bay.



4. Make sure that the SATA drives are seated correctly on the SATA connectors of the enclosure.



5. Screw back the front door of the enclosure.



6. Tighten the screws (both sides) to secure the front door.



How to Configure Raid

Raid Setting Table

		RAID	Selection S	witch
Display	RAID Status			
		4	2	1
0	BIG (span)	OFF	OFF	OFF
1	JBOD (single)	OFF	OFF	ON
2	FAST (strip)	OFF	ON	OFF
3	SAFE (mirror)	OFF	ON	ON
4	SAFE33	ON	OFF	OFF
5	SAFE50	ON	OFF	ON
6	RESERVED	ON	ON	OFF
7	GUI ONLY	ON	ON	ON

How to Build Raid JBOD

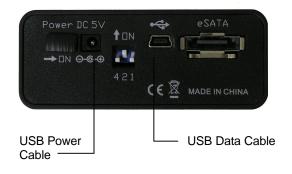
a. Setup Raid mode JBOD using RAID selection switch

1	JBOD (single)	OFF	OFF	ON
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b. USB Connection

Plug in mini USB data cable & USB power cable as shown.



- c. Plug the other end of the mini USB data cable & USB power cable to USB ports on your system.
- **Note:** Due to the different layouts of Laptops, we suggest to plug the USB cables on opposite sides of the Laptops to avoid weak power from the same side USB ports.

Avoid using the front USB ports of desktop because, sometimes, it is too weak to give enough power.

eSATA Connection

If you are connecting via eSATA, you will have to connect the USB power cable or the 110/220V AC/DC 5V power adapter.

Note: To see 2 individual drives (JBOD single) using eSATA connection, the enclosure must be connected to a port multiplier compatible SATA host controller.

d. Turn on the power switch.



e. Press the "RAID Setting" button once.

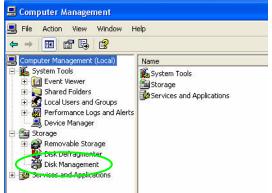
Note: Since the default Raid mode may be different from your new Raid mode setting, it is **required** to press the "RAID Setting" button once before using Portable Dual Drive RAID enclosure.



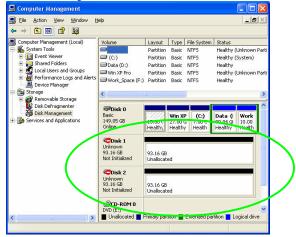
f. Place the cursor on the My Computer icon on your desktop, do a right click and choose "Manage" by clicking mouse left button



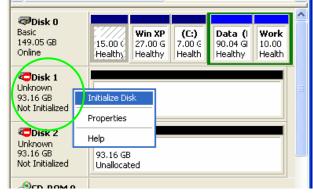
g. Select "Disk Management" .



h. Disk Management shows the hard disks that are "Unallocated"



i. Place cursor on Disk 1, do a right click then select "Initialize Disk "



j. Press "OK"	
Initialize Disk	? 🔀
Select one or more disks to initialize. Disks:	
☑ Disk 1	
	OK Cancel

k. Refer to steps i & j to initialize Disk 2

Image: Constraint of the second se	Cisk 0 Basic 149.05 GB Online	15.00 C Healthy	(C:) 7.00 G Health	Data (I 90.04 GI Healthy	Work 10.00 Health
Unknown 93.16 GB 93.16 GB	Basic 93.16 GB				
	Unknown 93.16 GB				

🗇 Disk 0					
Basic 149.05 GB Online	15.00 (Health)	Win XP 27.00 G Healthy	(C:) 7.00 G Health	Data (I 90.04 GI Healthy	Work 10.00 Health
CDisk 1 Basic 93.16 GB Online	93.16 GE Unallocal				
CDisk 2 Basic 93.16 GB Online	93.16 GE Unallocal				

m. Place cursor on Unallocated portion and select "New Partition"

Cisk 0 Basic 149.05 GB Online	15.00 GB 2	Win XP P 27.00 GB Healthy (l	(C:) 7.00 GB Healthy	Data (D: 90.04 GB M Healthy	Work_: 10.00 G Healthy	
Disk 1 Basic 93.16 GB Online	93.16 GB New Partition					
🗇 Disk 2		·	erties	_		
Basic 93.16 GB Online	93.16 GB Unallocated	Help				
ACD-ROM 0						

n. Choose "Next"



o. Choose "Next" again.



p. Set up partition size and click "Next"



g. Tick "Quick format" and click "Next"

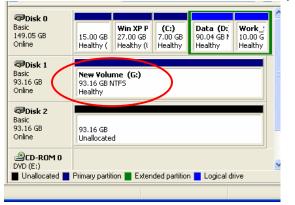
New Partition Wizard			
Format Partition To store data on this partition, you	ı must format it first.		
Choose whether you want to form	at this partition, and if	so, what settings you wa	nt to use.
O Do not format this partition			
Format this partition with th	e following settings:		
<u>E</u> ile system:	NTFS	~	
Allocation unit size:	Default	~	
⊻olume label:	New Volume		
Perform a quick form			
<u>Enable file and folder</u>	compression		
	< Back	<u>N</u> ext>	Cancel

New Partition Wizard	_
	Completing the New Partition Wizard You have successfully completed the New Partition Wizard. You selected the following settings:
	Partition type. Primary partition Disk selected. Disk 1 Partition size: 95334 MB Drive letter or path. G: File system NTFS Allocation unit size: Default Volume labet. New Volume Drick format: Yes To close this wizard, click Finish.
	< Back Finish Cancel

s. Disk Management shows system is "Formatting"

CDISK 0 Basic 149.05 GB Online	15.00 GB Healthy (Win XP P 27.00 GB Healthy (l	(C:) 7.00 GB Healthy	Data (D: 90.04 GB № Healthy	Work_ : 10.00 G Healthy
Cisk 1 Basic 93.16 GB Online	(G:) 93.16 GB Formatting	1			
Disk 2 Basic 93.16 GB Online	93.16 GB Unallocate	d			
2CD-ROM 0 DVD (E:) ■ Unallocated ■	Primary partit	ion 📕 Exten	ded partitior	n 📕 Logical dr	ive

t. When format is finish , it shows the drive as "Healthy"



u. Format the other hard disk by referring to steps m ~ r.

Computer Management							×
🛃 Eile Action Yiew Window H	elp					_8	×
⊨ → 🗈 📧 😫 🔮 📓	1						
Computer Management (Local)		Capacity	Free Space	% Free	Fault Tolerance	e Overhe	. /
🎉 System Tools	(Unknown Partition)	15.00 GB	4.21 GB	28 %	No	0%	
🗄 🔝 Event Viewer	(System)	7.00 GB	2.77 GB	39 %	No	0%	
🗉 殿 Shared Folders	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90.04 GB	12.68 GB	14 %	No	0%	
🗉 🕵 Local Users and Groups		93.16 GB	93.09 GB	99 %	No	0%	-
Performance Logs and Alerts Device Manager		93.16 GB	GB 93.09 GB	99 %	No	0%	
	Andreas Produces	07 00 CD	14 00 CD	FF 0/	N1-	007	8
Storage S	@Disk 0						ł
	Basic 149.05 GB Online	15.00 GB Healthy (Win XP P 27.00 GB Healthy (l	(C:) 7.00 GB Healthy	90.04 GB F	Work_: 10.00 G Healthy	
	Disk 1 Basic 93.16 GB Online	New Volu 93.16 GB I Healthy					
	Disk 2 Basic 93.16 GB Online	New Volu 93.16 GB I Healthy					

v. When the drive has been formatted, "My Computer" will show two Physical hard disks

e Edit View Favorites Tools	Help	
) Back - 🕥 - 🏂 🔎	õearch 彦 Folders 🛄 •	
iress 😼 My Computer		
	Files Stored on This Computer	
System Tasks 📀		
View system information Add or remove programs Change a setting	Shared Documents	tony's Documents
Gr charge a sociality	Hard Disk Drives	
Other Places 🙁		Data (D:)
🙀 My Network Places	Local Disk (C:)	Data (D:)
My Documents		
C Shared Documents	Work_Space (F:)	New Volume (G:)
🚱 Control Panel		-
Details 🚷	New Volume (H:)	
My Computer System Folder	Devices with Removable Storage	

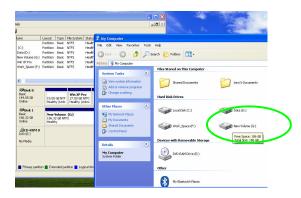
How to build Raid : BIG(Span)

Set the DIP switch as above and Refer to Step $b \sim v$ to build the Raid BIG(Span) mode. This time you can see only 1 hard disk only(see following two pictures.)

0	BIG (span)	OFF	OFF	OFF	



Computer Management (Local)	lume		Type	File System	Status		Capacity	Free Space	1 %
		Layout		NTES	Healthy (Unknown Pa	(onifite	15.00 GB	4.21 GB	21
Event Viewer	(C:)	Partition	Basic	NTES	Healthy (System)	100010	7.00 GB	2.82 GB	4
Figure Shared Folders	Data (D:)	Partition		NTES	Healthy			12.68 GB	1
🗉 🚮 Local Users and Groups	Win XP Pro	Partition		NTES	Healthy (Unknown Pa	rtition)		14.88 GB	5
😟 👼 Performance Logs and Alerts	Work_Space (F:)				Healthy		10.00 GB		4
Bevice Manager									
Storage									
Removable Storage Disk Defragmenter									
Disk Management	<								B
Services and Applications						_			
	@Disk 0							1	
	Basic 149.05 GB	15.00	GR NTF	Win XP P		Data	(D:) GBINTES	Work_Spar 10.00 GB NT	9
	Online			TICONIT ST		Health		Healthy	1
		-		P					
	Clisk 1					<u> </u>			-
	Basic 186.32 GB	186.3	170)			
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	001.32 GD	Lipalo	cated						
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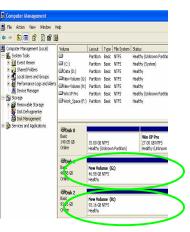
How to build Raid : SAFE50

Set the DIP switch as following and Refer to Step b ~ v to build the Raid SAFE50 mode. This time you can see 2 hard disks (one is mirror hard disk and the other, BIG. See following two pictures.

5	SAFE50	ON	OFF	ON	

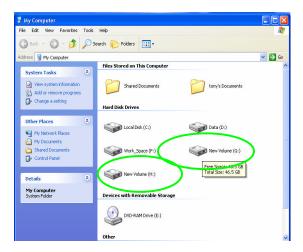


puter Management (Local)	Volume	Layout	Turn	File System	Onter
System Tools		Partition			Healthy (Unknown Part
Event Viewer	(C)	Partition			Healthy (System)
 Shared Folders Local Users and Groups 	Data (D:)	Parbtion	Basic	NTFS	Healthy
	I Win XP Pro	Partition	Basic	NTFS	Healthy (Unknown Part
Performance Logs and Alerts Device Manager	Work_Space (F:)	Partition	Basic	NTFS	Healthy
Disk Defragmenter Disk Management	ම්Disk 0				
Disk Defragmenter Disk Management	GPOisk 0 Basic 149.05 GB Online	15.00 GB Healthy (L		n Partition)	Win XP Pro 27.00 GB NTPS Healthy (Unknow
Disk Defragmenter Disk Management	Basic 149.05 GB			n Partition)	27.00 GB NTFS
Disk Defragmenter Disk Management	Basit 149.05 GB Online		Inknoee	n Partition)	27.00 GB NTFS
Pernovable Storage Disk Defragmenter Disk Mentagmenth Disk Mentagmenth Services and Applications	Basit 149.05 GB Online Collink 1 Basit 46.55 GB Online	Healthy (). 46.58 GB	Inknoee	n Partition)	27.00 GB NTFS
Disk Defragmenter Disk Management	Basit 149.05 GB Online Basit 46.55 GB Online	Healthy (). 46.58 GB	Inknoee	n Partition)	27.00 GB NTFS



To hard disks

Two healthy hard disks



After Raid SAFE50 is finished, you can see two new hard disks, one is with Raid mirroring and the other is with Raid BIG.

Trouble shooting

A Can only see "8GB Unallocated"

Possible reasons are:

- A-1 You did not install any hard disk.
- A-2 During initial installation you forgot to press "RAID Setting" button once.
- A-3 You have change the Raid mode but forgot to press "RAID Setting" button

once. 📕 Computer Management Rile Action View Window Help Somputer Management (Local) Layout Type File System Status 🐞 System Tools Healthy (Unknown Partition) Partition Basic NTFS Constant Note Constan Healthy (System) Healthy Healthy (Unknown Partition) Healthy 🚊 Device Manager Storage Bisk Defragmenter Services and Applications ØDisk 0 Win XP Pro Basic 149.05 GB 27.00 GB NTFS Healthy (Unknown Pa 15.00 GB NTES up Partition) CDisk 1 Unknowr 8.00 GB 8.00 GB Unallocate DVD (E:)

B Show wrong hard disk capacity or wrong hard disk numbers

B-1 Normally, it is because you have changed Raid mode setting but did not delete the previous Raid partition. In this case, you will have to delete the previous Raid partition on the hard disks and then, re-organize your hard disks again.

C Hard disk LED indicators are blinking with green/red

- C-1 This is because the Safe (mirror) mode is rebuilding. It usually occurs during initial setup of the Saf e(mirror) mode or you change the new hard disks.
- C-2 The LED blinking will return to normal after rebuilding process is finished.
- C-3 While the Safe(Mirror) is rebuilding or verifying, you can still use the hard disks, only the performance will be slower than expected.

D Hard disk LED light on Red or Red blinking

d-1 It means the this hard disk is not put in or not connected properly or the put in hard disk is failed.

E Red LED "PWR/Backup" is blinking

E-1 It means you already push the 'Back up" button and ready to proceed the back up.

F LED "PWR/Back up" does not light on

F-1 It means the hard drive has problem under Safe(Mirror) Mode.

G When powering on, you can hear the 'clicker' sound

G-1 That means you have not connected the USB power cable to a USB port properly or the USB power socket does not supply enough power.

H Can not see the correct device data under "57xx SteelVine Manager"

H-1 You can click the upper left icon "File" & click "Scan Drives" from pop-up window to see it.

Technical Support

If you need assistance to get your unit functioning properly, please call Addonics Technical Support. Our technical staff will be happy to assist you, but they will need your help to do so. Calling the technical support staff without all the proper information can be both time consuming and frustrating. Here are some tips to help you out:

> MODEL NUMBER – Please have this number on hand. SYSTEM INFORMATION – Type of computer, peripherals, etc. OPERATING SYSTEM – What version of Windows WHAT'S THE TROUBLE? – Give enough information about your problem so that we can recreate and diagnose it.

FREE Software Drivers for all Addonics Technologies Products are available 24 hours per day at the World Wide Web Site: www.addonics.com

Contact Information

Phone:	408-573-8580
Fax:	408-573-8588
Email:	http://www.addonics.com/sales/query/
Internet:	http://www.addonics.com

TECHNICAL SUPPORT

Phone:	408-453-6212
Hours:	8:30 am - 6:00 pm PST
Email:	http://www.addonics.com/support/query/